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APRIL 04, 2002

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APPLIED MATERIALS, INC.
ROBERT W. MULCAHY
P.O. BOX 450A, M/S 2061
SANTA CLARA, CA 95052



UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/25/2002

REEL/FRAME: 012547/0069
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
JANAKIRAMAN, KARTHIK

DOC DATE: 01/24/2002

ASSIGNOR:
INGLE, NITIN

DOC DATE: 01/24/2002

ASSIGNOR:
YUAN, ZHENG

DOC DATE: 01/24/2002

ASSIGNOR:
GIANOULAKIS, STEVEN

DOC DATE: 01/24/2002

ASSIGNEE:
APPLIED MATERIALS, INC.
P.O. BOX 450A
LEGAL AFFAIRS DEPARTMENT
SANTA CLARA, CALIFORNIA 95052

SERIAL NUMBER: 10057280
PATENT NUMBER:

FILING DATE: 01/25/2002
ISSUE DATE:

COMPUTER ENTERED
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JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

FORM PTO-1595
(Rev. 6-93)

101977667

U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Asst. Commissioner for Patents. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Karthik Janakiraman, Nitin Ingle, Zheng Yuan, Steven
GianoulakisAdditional name(s) of conveying parties attached? ☐ Yes ☒ No

1-25-02

2. Name and address of receiving party(ies)

Name: Applied Materials, Inc.

Internal Address: Legal Affairs Department

Street Address: P.O. Box 450A

City: Santa Clara State: CA ZIP: 95052

Additional names and addresses attached? ☐ Yes ☒ NoJ1050 U.S. PTO
10/05/2002
01/25/02

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date:

1-24-02

4. Application Number(s) or Patent Numbers.

If this document is being filed together with a new application, the execution date of the application is: 1-25-02

10,057,280

A. Patent Application No(s):

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:

Name:

Patent Counsel
APPLIED MATERIALS, INC.
Legal Affairs Department
P.O. Box 450A, M/S 2061
Santa Clara, California 95052

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☐ Enclosed ☒ Charge Fees to Deposit Account
☒ Charge any additional fees associated with this paper or during
the pendency of this application, or credit any overpayment, to
deposit account.

8. Deposit account number: 50-1074

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct, and any attached copy is a true and correct copy of the
original document.Robert W. Mulcahy
Name of Person Signing

Signature

Date

Atty Reg. No. 25,436

Total number of pages including cover sheet, attachments and document: 3

10. Change Correspondence Address to that of Part 5? ☒ Yes ☐ No

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover to:

Asst. Commissioner for Patents
Box: Assignments
Washington, D.C. 20231

PA 3189136 v1

02/07/2002 DBTKE 0000066 501074 10057280

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40.00 CR

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

1)	Karthik Janakiraman 1252 Henderson Ave, #1 Sunnyvale, CA 94086 United States	2)	Nitin Ingle 999 W. Hamilton Ave, #97 Campbell, CA 95008 United States
3)	Zheng Yuan 42024 Benbow Drive Fremont, CA 94539 United States	4)	Steven Gianoulakis 4242 Fairlands Drive Pleasanton, CA 95054 United States

(hereinafter referred to as Assignors), have invented a certain invention entitled:

GAS DISTRIBUTION SHOWERHEAD

for which application for Letters Patent in the United States was filed on __/__/__, under Serial No. _____, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

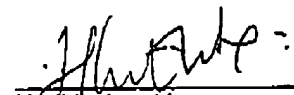

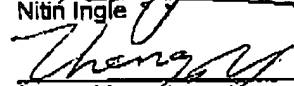
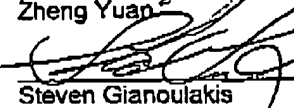
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed;

(b) for prosecuting any of said applications; (c) for filing and prosecuting institute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>1/24/2002</u>	, 2002	 Karthik Janakiraman
2)	<u>1/24/2002</u>	, 2002	 Nitin Ingle
3)	<u>1/24/02</u>	, 2002	 Zheng Yuan
4)	<u>1/24/02</u>	, 2002	 Steven Gianoulakis

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